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Applicant(s): Mileos et al.  
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11. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein the position of the stopping means is adjustable between a first position and a second position, the first position being closer to the front end of the mounting bracket than the second position, and the second position being closer to the rear end of the mounting bracket than the first position.

12. (Original) The auxiliary shelf mechanism of claim 11, wherein the position of the stopping means can be fixed at either the first position, or the second position, or at any position between the first and second positions.

13. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein the upper arm is connected to the mounting bracket by a first pivot rod at the first point, and to the shelf bracket by a second pivot rod at the second point, and further wherein the side arm is connected to the shelf bracket by a third pivot rod at the third point, and to the mounting bracket by a bolt at the fourth point.

14. (Previously amended) The auxiliary shelf mechanism of claim 101 further comprising a fixing means for temporarily fixing the side arm to the mounting bracket.

15. (Previously amended) The auxiliary shelf mechanism of claim 14, wherein the side arm may be fixed into position relative to the mounting bracket with a locking mechanism.

16. (Original) The auxiliary shelf mechanism of claim 15 further comprising a locking knob that fixes the position of the side arm relative to the mounting bracket.

17. (Previously amended) The auxiliary shelf mechanism of claim 16, further comprising a stopping rod effective to apply friction between the rear end of the side arm and first side of the stopping means.

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18. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein the side arm is fixed into position by means of interaction between interconnecting projections on the rear end of the side arm and the first side of the stopping means.

19. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein said stopping means is attached to an inside face of the mounting bracket, and further wherein the first side of said stopping means is angled outwards towards the inside face of the mounting bracket to which the stopping means is attached.

20. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein the rear end of the side arm and the first side of the stopping means comprises a complementary series of interlocking teeth.

21. (Previously amended) The auxiliary shelf mechanism of claim 5, wherein the rear end of the side arm consists of a side-arm cam pivotally connected to the rear end of the side arm, the side arm cam having a convex face which complements the first side of the stopping means.

22. (Cancelled)

23. (Presently Amended) The auxiliary shelf mechanism of claim 101, wherein the means for attaching the auxiliary shelf to a desk comprises a mounting track; the means for rotating the articulating arm mechanism relative to the desk comprises a swivel mechanism attached to the mounting bracket in combination with the mounting track to which the mounting bracket is slidably connected, either directly or indirectly.

24. (Previously amended) The auxiliary shelf mechanism of claim 101, wherein the articulating arm mechanism further comprises: (a) a second side arm; (b) a second stopping means; and further wherein; (c) the first side of each stopping means is concave;

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(d) each stopping means is attached to an inside side of the mounting bracket, and further wherein the first side of each stopping means is angled outwards towards the inside face of the mounting bracket to which each stopping means is attached so that the rear end of each side arm can contact each stopping means and an inside face of the mounting bracket simultaneously; (e) the fourth point is disposed beneath the first point, and the third point is disposed beneath the second point; (f) the articulating arm mechanism may be rotated relative to the desk by means of a swivel mechanism attached to the mounting bracket in combination with a mounting track to which the mounting bracket is slidably connected.

25. (Presently amended) An articulating arm mechanism for connecting a shelf to a desk, comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end; (b) an upper arm having a rear end and a front end, said upper arm being pivotally connected to the mounting bracket at a first point, the rear end of the upper arm being defined as the end of the upper arm closest to the mounting bracket and the front end being defined as the end opposite the rear end; (c) a shelf bracket pivotally connected to the upper arm at a second point; (d) a side arm having a front end and a rear end, said side arm being pivotally connected to the shelf bracket at a third point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be pivoted relative to the mounting bracket about the fourth point and can be reciprocally moved relative to the fourth point; the front end of the side arm being defined as the end closest to the third point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, having a first side facing towards the rear end of the side arm, such that when the side arm moves laterally relative to the fourth point, the rear end of the side arm can contact the first side of the stopping means; and wherein the side arm and the upper arm are substantially not parallel to each other.

26. (Previously amended) The articulating arm mechanism of claim 25, wherein the third point is disposed beneath the second point.

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27. (Previously amended) The articulating arm mechanism of claim 25, wherein the fourth point is disposed beneath the first point.

28. (Original) The articulating arm mechanism of claim 25, wherein the fourth point is disposed beneath the first point, and the third point is disposed beneath the second point.

29. (Original) The articulating arm mechanism of claim 25, wherein the first side of the stopping means is concave.

30. (Presently amended) The articulating arm mechanism of claim 25, wherein the distance between the first and fourth points is less than the distance between the second and third points; and said mechanism further comprises a means for rotating it about a vertical axis.

31. (Cancelled)

32. (Previously amended) The articulating arm mechanism of claim 25, wherein the articulating arm mechanism has two side arms and two stopping means, wherein the rear end of each side arm can contact the first side of its corresponding stopping means.

33. (Original) The articulating arm mechanism of claim 32, wherein the two stopping means are connected to each other.

34. (Original) The articulating arm mechanism of claim 33, wherein at least one of the first sides of each stopping means is concave.

35. (Original) The articulating arm mechanism of claim 25, wherein the upper arm is connected to the mounting bracket by a first pivot rod and to the shelf bracket by a

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second pivot rod, and further wherein the side arm is connected to the shelf bracket by a third pivot rod and to the mounting bracket by a bolt.

36. (Original) The articulating arm mechanism of claim 25, further comprising a fixing means connecting the side arm to the mounting bracket.

37. (Original) The articulating arm mechanism of claim 36, wherein the side arm may be fixed into position with a locking means.

38. (Original) The articulating arm mechanism of claim 37, wherein the locking means is a locking knob.

39. (Previously amended) The articulating arm mechanism of claim 25, wherein the side arm is fixed into position by means of friction between the rear end of the side arm and the first side of stopping means.

40. (Previously amended) The articulating arm mechanism of claim 25, wherein the side arm is fixed into position by means of interaction between interconnecting projections on the rear end of the side arm and the first side of the stopping means.

41. (Previously amended) The articulating arm mechanism of claim 25, wherein the stopping means is attached to an inside face of the mounting bracket, and further wherein a concave face of the stopping means is angled outwards towards the inside face of the mounting bracket to which the stopping means is attached.

42. (Previously amended) The articulating arm mechanism of claim 25, wherein the rear end of a side arm and the concave face of the stopping means comprise complementary series of interlocking teeth.

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43. (Previously amended) The articulating arm mechanism of claim 29, wherein the rear end of the side arm consists of a side-arm cam pivotally connected to the end of the side arm, the side-arm cam having a convex face which complements the first face of the stopping means with which the mechanism comes in contact.

44. (Original) The articulating arm mechanism of claim 25, wherein the articulating arm mechanism further comprises a means for rotating it relative to the desk.

45. (Original) The articulating arm mechanism of claim 44, wherein the means for rotating it relative to the desk comprises a swivel mechanism attached to the mounting bracket.

46. (Previously amended) The articulating arm mechanism of claim 25, wherein: (a) there are two side arms; (b) there are two stopping means, optionally connected to one another; (c) the first side of each stopping means is concave; (d) each stopping means is attached to an inside side of the mounting bracket, and further wherein the first face of each stopping means is angled outward towards the inside face of the mounting bracket to which each stopping means is attached so that a rear end of each side arm can contact a stopping means and the inside face of the mounting bracket simultaneously (e) the fourth point is disposed beneath the first point, and the third point is disposed beneath the second point; and (f) the articulating arm mechanism may be rotated relative to the desk by means of a swivel mechanism attached to the mounting bracket in combination with a mounting track to which the mounting bracket is slidably connected, either directly or indirectly.

47. (Presently amended) An articulating arm mechanism for connecting a shelf to a desk comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end, the front end adapted to be closer to the front of the desk than the back end; (b) an upper arm pivotally connected to the mounting bracket at a first point, the upper arm having a rear end and a front end, the rear end of the upper arm being defined as the

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end of the upper arm closest to the mounting bracket; (c) a shelf bracket pivotally connected to the upper arm at a second point; the front end of the upper arm being defined as the end of the upper arm closest to the shelf bracket; (d) a side arm pivotally connected to the shelf bracket at a third point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be moved both pivotally and reciprocatingly about the fourth point; the front end of the side arm being defined as the end closest to the third point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, the stopping means having a first side facing towards the rear end of the side arm, such that when the side arm moves horizontally relative to the fourth point, the rear end of the side arm can contact the first side of the stopping means; wherein the side arm and the upper arm are not parallel to each other; and further wherein the position of the stopping means is such that regardless of the angle of the side arm to the horizontal, the angle of the shelf bracket relative to horizontal remains constant.

48. - 56 (Cancelled)

57. (Original)           An improved auxiliary shelf mechanism for positioning an auxiliary shelf, including a means for attaching the auxiliary shelf to a desk so that the auxiliary shelf may be movably positioned relative to the desk, wherein the improvement comprises: an articulating arm mechanism comprising: a) a mounting bracket, the mounting bracket having a front end and a back end; b) a first arm having a rear portion and a front portion, the rear portion of the first arm being pivotally connected to the mounting bracket; c) a shelf bracket connected to the front portion of the first arm; d) a second arm having a front portion and a rear portion, the front portion of the second arm is pivotally connected to the shelf bracket and the rear portion of the second arm being slidably connected to the mounting bracket; and e) a stopping surface associated with the mounting bracket such that movement of the second arm is restricted when the second arm is translated; wherein the first and second arms are not parallel to each other.

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58. (Previously amended) The auxiliary shelf mechanism of claim 57, wherein the first arm is connected to the mounting bracket by a first pivot and to the shelf bracket by a second pivot and further wherein the second arm is connected to the shelf bracket by a third pivot and to the mounting bracket by a sliding joint.

59. (Original) The auxiliary shelf mechanism of claim 57, wherein movement of the second arm is restricted by friction between the rear portion of the second arm and the stopping surface.

60. (Original) The auxiliary shelf mechanism of claim 57, wherein the second arm is fixed into position by engaging interconnecting projections on the rear portion of the second arm and the stopping surface.

61. (Previously amended) The auxiliary shelf mechanism of claim 57, wherein the rear portion of the second arm and the stopping surface comprise complementary series of interlocking teeth.

62. (Original) The auxiliary shelf mechanism of claim 57, wherein the articulating arm mechanism further comprises means for rotating said mechanism relative to the desk.

63. (Original) The auxiliary shelf mechanism of claim 57, wherein the means for attaching the auxiliary shelf to the desk comprises a mounting track; a means for rotating the articulating arm mechanism relative to the desk comprises a swivel mechanism attached to the mounting bracket in combination with the mounting track to which the mounting bracket is slidably connected.

64. (Original) The auxiliary shelf mechanism of claim 57, further comprising a spring for biasing either the first or second arm.



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65. – 84 (Cancelled)

85. (Presently amended) The auxiliary shelf mechanism of claim 101 wherein the ~~second linkage arm~~ said mounting bracket includes a pivot pin at the end connected to the ~~first linkage side arm~~, said ~~first side~~ arm including an arcuate guide slot for receipt of the pin, one of said pin or said ~~second mounting~~ bracket member further including said ~~a first~~ inclined surface for engagement with the other to lock the arms when the ~~second bracket member side arm~~ is rotated about the axis connecting the ~~second bracket member side arm~~ and ~~said side first~~ arm.

86. – 90 (Cancelled)

91. (Previously amended) A mounting mechanism for mounting a support for an art device on a base, comprising: (a) a mounting member for attachment to said base; (b) a linkage having a first end for mounting said support and a second end pivotally connected to said mounting member for permitting vertical swinging movement of said support relative to said mounting member between lower and upper positions, (i) said linkage including an upper link, a lower link, a first end link, and first, second, and third pivot connections having parallel axes, wherein (1) said upper link has opposite ends pivotally coupled to said first end link and said mounting member by said first and second pivot connections; (2) one end of said lower link is pivotally coupled to said first end link by said third pivot connection, and (3) said second end of said linkage is pivotally connected to said mounting member solely by said second pivot connection; (ii) said linkage being a non-parallelogram linkage, and (c) a stopping means for releasably restraining said support in a desired position intermediate said lower and upper positions, (i) said stopping means including a first engagement surface on said linkage and a second engagement surface of said mounting member, said first engagement surface being normally gravitationally biased into engagement with said second engagement surface for releasably restraining said support against downwardly directed vertical swinging movement, and (ii) said first engagement surface is released from engagement with said

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second engagement surface by applying an upwardly directed manual force to said support.

92. – 93 (Cancelled)

94. (Original) The improved auxiliary shelf mechanism of claim 47 in which said linkage upper arm comprises an elongated downwardly opening channel-shaped member.

95. – 100 (Cancelled)

101. (Presently amended) An improved auxiliary shelf mechanism for vertically and horizontally positioning an auxiliary shelf, including a means for attaching the auxiliary shelf to a desk so that the auxiliary shelf may be movably positioned relative to the desk, wherein the improvement comprises: an articulating arm mechanism comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end, the front end being closer to the front of the desk than the back end; (b) an upper arm having a rear end and a front end, the upper arm being pivotally connected to the mounting bracket at a first point, the rear end of the upper arm being defined as the end of the upper arm closest to the mounting bracket and the front end being defined as the end opposite the first point; (c) a shelf bracket pivotally connected to the upper arm at a second point; (d) a side arm having a front end and a rear end, the side arm being pivotally connected to the shelf bracket at a third point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be pivoted relative to the mounting bracket about the fourth point and can be reciprocatingly moved relative to the fourth point; the front end of the side arm being defined as the end closest to the third point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, the stopping means having a first side facing towards the rear end of the side arm, such that when the side arm moves laterally relative to the fourth point, the rear end of the side arm can contact the first side of the stopping means; wherein the side arm and the upper arm are not substantially parallel to

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each other, wherein the articulating arm mechanism further comprises a lower arm, the lower arm being pivotally attached to the upper arm at a fifth point, the fifth point being disposed between the first and second points, the lower arm being further attached to the mounting bracket at the fourth point, the lower arm further having within it a second opening, such that the lower arm can pivot about the fourth point and can be reciprocatingly moved relative to the fourth point; and (f) means for rotating it about a vertical axis.

102 (Presently amended) An articulating arm mechanism for connecting a shelf to a desk comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end; (b) an upper arm having a rear end and a front end, said upper arm being pivotally connected to the mounting bracket at a first point, the rear end of the upper arm being defined as the end of the upper arm closest to the mounting bracket and the front being defined as the end opposite the rear end; (c) a shelf bracket pivotally connected to the upper arm at a second point; (d) a side arm having a front end and a rear end, said side arm being pivotally connected to the shelf bracket at a third point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be pivoted relative to the mounting bracket about the fourth pivot point and can be reciprocatingly moved relative to the fourth point; the front end of the side arm being defined as the end closest to the third point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, the stopping means having a first side facing towards the rear end of the side arm, such that when the side arm moves laterally relative to the fourth point is the rear end of the side arm can contact the first side of the stopping means; wherein the side arm and the upper arm are substantially not parallel to each other, wherein the articulating arm mechanism further comprises a lower arm, the lower arm being pivotally attached to the upper arm at a fifth point, the fifth point being disposed between the first and second points, the lower arm being further attached to the mounting bracket at the fourth point, the lower arm further having within it a second opening, such that the lower arm can

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move about the fourth point both pivotally and reciprocatingly; and (f) means for rotating it about a vertical axis.

103 (New) An improved auxiliary shelf mechanism for vertically and horizontally positioning an auxiliary shelf, including a means for attaching the auxiliary shelf to a desk so that the auxiliary shelf may be movably positioned relative to the desk, wherein the improvement comprises: an articulating arm mechanism comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end, the front end being closer to the front of the desk than the back end; (b) an upper arm having a rear end and a front end, the upper arm being pivotally connected to the mounting bracket at a first point, the rear end of the upper arm being defined as the end of the upper arm closest to the mounting bracket and the front end being defined as the end opposite the first point; (c) a shelf bracket pivotally connected to the upper arm at a second point; (d) a side arm having a front end and a rear end, the side arm being pivotally connected to the shelf bracket at a third point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be pivoted relative to the mounting bracket about the fourth point and can be reciprocatingly moved relative to the fourth point; the front end of the side arm being defined as the end closest to the third point wherein the third point is disposed beneath the second point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, the stopping means having a first side facing towards the rear end of the side arm, such that when the side arm moves laterally relative to the fourth point, the rear end of the side arm can contact the first side of the stopping means; wherein the side arm and the upper arm are not substantially parallel to each other, wherein the articulating arm mechanism further comprises a lower arm, the lower arm being pivotally attached to the upper arm at a fifth point, the fifth point being disposed between the first and second points, the lower arm being further attached to the mounting bracket at the fourth point, the lower arm further having within it a second opening, such that the lower arm can pivot about the fourth point and can be reciprocatingly moved relative to the fourth point.

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104 (New) An articulating arm mechanism for connecting a shelf to a desk comprising: (a) a mounting bracket, the mounting bracket having a front end and a back end; (b) an upper arm having a rear end and a front end, said upper arm being pivotally connected to the mounting bracket at a first point, the rear end of the upper arm being defined as the end of the upper arm closest to the mounting bracket and the front being defined as the end opposite the rear end; (c) a shelf bracket pivotally connected to the upper arm at a second point; (d) a side arm having a front end and a rear end, said side arm being pivotally connected to the shelf bracket at a third point, wherein the third point is disposed beneath the second point; the side arm being further attached to the mounting bracket at a fourth point; the side arm having within it a first opening such that the side arm can be pivoted relative to the mounting bracket about the fourth pivot point and can be reciprocatingly moved relative to the fourth point; the front end of the side arm being defined as the end closest to the third point, and the rear end of the side arm being defined as the end opposite from the front end; (e) a stopping means, the stopping means having a first side facing towards the rear end of the side arm, such that when the side arm moves laterally relative to the fourth point is the rear end of the side arm can contact the first side of the stopping means; wherein the side arm and the upper arm are substantially not parallel to each other, wherein the articulating arm mechanism further comprises a lower arm, the lower arm being pivotally attached to the upper arm at a fifth point, the fifth point being disposed between the first and second points, the lower arm being further attached to the mounting bracket at the fourth point, the lower arm further having within it a second opening, such that the lower arm can move about the fourth point both pivotally and reciprocatingly.

105. (New) The articulating arm mechanism of claim 25, wherein the distance between the first and fourth points is less than the distance between the second and third points wherein the third point is disposed beneath the second point.